

AN 1989-037453 JAPIO  
TI PRODUCTION OF SINTERED CERAMIC COMPACT  
IN HORIUCHI MICHIO; MURAMATSU SHIGEJI  
PA SHINKO ELECTRIC IND CO LTD  
PI JP 01037453 A 19890208 Heisei  
AI JP 1987-191267 (JP62191267 Showa) 19870730  
PRAI JP 1987-191267 19870730  
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1989  
AB PURPOSE: To obtain the titled sintered compact having excellent dimensional accuracy with hardly any warping, by colloiddally dispersing a ceramic raw material powder and polycarboxylate in a solvent, adding and mixing a plasticizer and organic binder to provide a slurry, form, forming the resultant slurry into a green sheet and firing the obtained sheet.  
CONSTITUTION: A ceramic raw material (e.g. 90pts.wt. alumina powder), a sintering assistant (e.g. 10pts.wt.  $\text{SiO}_2$ ,  $\text{MgO}$  or  $\text{CaO}$ ), and a polycarboxylate (e.g.  $\text{NH}_4$  salt in a volume of 0.8ml/100g inorganic powder) are colloiddally dispersed in a solvent (e.g. ethanol) using a ball mill and a plasticizer (e.g. DBP) and an organic binder (e.g. polyvinyl butyral) are added and mixed to provide a slurry, which is then formed by a doctor blade forming method to afford a green sheet. The resultant green sheet is subsequently punched to a given dimension and fired in an electric furnace to provide the titled sintered compact.  
COPYRIGHT: (C)1989,JPO&Japio